

INTERNATIONAL SEARCH REPORT

PCT/US2004/009986

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H02G9/10 H02B1/50 G02B6/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H02G H02B G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 223 651 A (EIJNDHOVEN INTERNAT B V VAN ; JACOBS JOEP CORNELIS WILHELMUS (NL)) 17 July 2002 (2002-07-17) column 2, line 55 - column 3, line 53; figures 1,2	1,3, 8-10, 15-17, 25,26,29
X	US 3 892 910 A (SMITH ARNOLD RAY) 1 July 1975 (1975-07-01) column 2, line 7 - line 40 column 3, line 47 - column 4, line 11; figures 1,3	1,2,15, 25,26,29
X	EP 0 605 118 A (AT & T CORP) 6 July 1994 (1994-07-06) abstract; claims 1-4; figures 1,2 ----- -/--	1,15,25, 26,29

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

10 August 2004

Date of mailing of the international search report

17/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Lommel, A

INTERNATIONAL SEARCH REPORT

PCT/US2004/009986

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	NL 1 011 825 C (ZWAAN BEHEER B V A) 23 October 2000 (2000-10-23)	1-3
X	abstract; claims 1-5; figures 1-3 -----	11,22
A	DE 200 19 873 U (FLADUNG MANFRED) 12 April 2001 (2001-04-12) the whole document -----	1,11,22
A	DE 41 40 701 C (SIEMENS) 10 December 1992 (1992-12-10) abstract; claims 1-5; figures 1,2 -----	1,11,22
A	US 3 482 030 A (WISNIEWSKI WALTER S) 2 December 1969 (1969-12-02) abstract; figure 1 -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/US2004/009986

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1223651	A	17-07-2002	NL EP	1017089 C2 1223651 A1	15-07-2002 17-07-2002
US 3892910	A	01-07-1975	CA	1035030 A1	18-07-1978
EP 0605118	A	06-07-1994	CA EP JP	2102858 A1 0605118 A2 6232568 A	01-07-1994 06-07-1994 19-08-1994
NL 1011825	C	23-10-2000	NL	1011825 C1	23-10-2000
DE 20019873	U	12-04-2001	DE AU WO	20019873 U1 2072102 A 0242151 A1	12-04-2001 03-06-2002 30-05-2002
DE 4140701	C	10-12-1992	DE DE	4140701 C1 4315275 A1	10-12-1992 10-11-1994
US 3482030	A	02-12-1969	NONE		